

10958BC

Programming Fundamentals of Web Applications

5 DAYS

SATV : YES

Course Description

In this course, students will learn how to develop simple Web applications using WebMatrix and Visual Studio 2012. Windows Azure is used as part of the lab for this course, which may not be available in all countries.

Course Outline

Module 1: Designing the WebMatrix 2 Website

- Structuring a Website
- Applying Template Views
- Applying Styles to a Website
- Adapting a Site for Mobile Browsers

Module 2: Overview of Microsoft Web Technologies

- Introduction to Web Fundamentals
- Introduction to the Microsoft Web Stack
- Introduction to the Open Source Application Gallery

Module 3: Exploring WebMatrix 2

- The Project Life Cycle
- Introduction to Microsoft WebMatrix 2

Module 4: Building Simple Websites in WebMatrix 2

- Building Webpages in WebMatrix 2
- Using Razor Syntax to Build Dynamic Pages

Module 5: Building Data-Driven Websites in WebMatrix 2

- Introduction to Databases
- Creating a Database in WebMatrix 2
- Displaying Data

Module 6: Adding Rich Content to WebMatrix 2 Websites

- Adding Media Content
- Using HTML5 in a Website

Module 7: Enriching a WebMatrix 2 Website by Using Open Source Components

- Overview of Open Source Packages in NuGet
- Browsing, Installing, and Using Packages

Module 8: Securing a WebMatrix 2 Website

- Developing Websites That Resist Attack
- Controlling Access to a Website
- Working with Roles and Memberships

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Module 9: Building Responsive Webpages

- Why Use Client-Side Scripts?
- Using AJAX and Partial Page Updates
- The jQuery Script Libraries
- Optimizing the Caches to Improve Performance

Module 10: Driving Traffic to a WebMatrix 2 Website

- Growing a Website
- Analyzing a WebMatrix 2 Website
- Optimizing a WebMatrix 2 Site for Search Engines
- Marketing a Website

Module 11: Customizing an Application from the WebMatrix 2 Gallery

- Exploring the Application Gallery
- Modifying an Existing Application

Module 12: Transitioning from WebMatrix 2 to Visual Studio

- Developing Websites in Visual Studio
- Moving Between WebMatrix 2 and Visual Studio

Module 13: Deploying a WebMatrix 2 Web Applications

- Hosting Web Applications
- Hosting Databases
- Deploying to your Chosen Locations

Module 14: Troubleshooting WebMatrix 2 Websites

- Sources of Errors
- Using Internet Explorer Developer Tools
- Troubleshooting Problems

Module 15: Consuming Services and Data from the Web

- Calling Web Services from a Web Application
- Public Data Sources